p#12

09673707

1600

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RAW SEQUENCE LISTING DATE: 01/02/2003
PATENT APPLICATION: US/09/673,707 TIME: 08:57:34

Input Set : A:\Nih356-1.app
Output Set: N:\CRF4\01022003\I673707.raw

<110> APPLICANT: Pastan, Ira H.
Bera, Tapan K.
Kennedy, Paul E.
Berger, Edward A.
Barbas III, Carlos F.
The Government of the United States of America
as represented by The Secretary of the
Department of Health and Human Services
<120> TITLE OF INVENTION: Recombinant Immunotoxin Directed Against the HIV-1 gp120 Envelope Glycoprotein
<130> FILE REFERENCE: 015280-356100US
<140> CURRENT APPLICATION NUMBER: US 09/673,707
<141> CURRENT FILING DATE: 2001-01-11
<150> PRIOR APPLICATION NUMBER: WO PCT/US99/12909
<151> PRIOR FILING DATE: 1999-06-08
<150> PRIOR APPLICATION NUMBER: US 60/088,860
<151> PRIOR FILING DATE: 1998-06-11
<160> NUMBER OF SEQ ID NOS: 13
<170> SOFTWARE: PatentIn Ver. 2.0
<210> SEQ ID NO: 1
<211> LENGTH: 251
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:3B3(Fv) amino acid sequence
<400> SEQUENCE: 1

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 1               5                  10                  15
Ala Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Arg Phe Ser Asn
            20                  25                  30
Phe Thr Val His Trp Val Arg Gln Ala Pro Gly Gln Arg Phe Glu Trp
        35                  40                  45
Met Gly Trp Ile Asn Pro Tyr Asn Gly Asn Lys Glu Phe Ser Ala Lys
    50                  55                  60
Phe Gln Asp Arg Val Thr Phe Thr Ala Asp Thr Ser Ala Asn Thr Ala
65                  70                  75                  80
Tyr Met Glu Leu Arg Ser Leu Arg Ser Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95
Cys Ala Arg Val Gly Glu Trp Gly Trp Asp Asp Ser Pro Gln Asp Asn
            100                 105                 110
Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Ile Val Ser Ser
        115                 120                 125
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64 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp
65     130                 135                 140
67 Ile Glu Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu
68 145                 150                 155                 160
70 Arg Ala Thr Phe Ser Cys Arg Ser Ser His Ser Ile Arg Ser Arg Arg
71                 165                 170                 175
73 Val Ala Trp Tyr Gln His Lys Pro Gly Gln Ala Pro Arg Leu Val Ile
74             180                 185                 190
76 His Gly Val Ser Asn Arg Ala Ser Gly Ile Ser Asp Arg Phe Ser Gly
77         195                 200                 205
79 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Arg Val Glu Pro
80     210                 215                 220
82 Glu Asp Phe Ala Leu Tyr Tyr Cys Gln Val Tyr Gly Ala Ser Ser Tyr
83 225                 230                 235                 240
85 Thr Phe Gly Gln Gly Thr Lys Leu Glu Arg Lys
86                 245                 250
89 <210> SEQ ID NO: 2
90 <211> LENGTH: 753
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial
96       Sequence:3B3V-H(Gly-4Ser)-3V-L nucleotide sequence
98 <220> FEATURE:
99 <221> NAME/KEY: CDS
100 <222> LOCATION: (1)..(753)
102 <400> SEQUENCE: 2
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104 gtttcttgtc aggcttctgg atacagattc agtaacttca cggtccactg ggtgcgccag 120
105 gcccccggac agaggtttga gtggatggga tggatcaatc cttacaacgg aaacaaagaa 180
106 ttttcagcga agttccagga cagagtcacc tttaccgcgg acacatccgc gaacacagcc 240
107 tacatggagt tgaggagcct cagatctgca gacacggctg tttattattg tgcgagagtg 300
108 ggggagtggg gttgggatga ttctccccag gacaattatt atatggacgt ctggggcaaa 360
109 gggaccacgg tcatcgtctc ctcaggcgga ggcggatcag gtggtggcgg atctggaggt 420
110 ggcggaagcg acatcgagct cacgcagtct ccaggcaccc tgtctctgtc tccaggggaa 480
111 agagccacct tctcctgtag gtccagtcac agcattcgca gccgccgcgt agcctggtac 540
112 cagcacaaac ctggccaggc tccaaggctg gtcatacatg gtgtttccaa tagggcctct 600
113 ggcatctcag acaggttcag cggcagtggg tctgggacag acttcactct caccatcacc 660
114 agagtggagc ctgaagactt tgcactgtac tactgtcagg tctatggtgc ctcctcgtac 720
115 acttttggcc aggggaccaa actggagagg aaa                              753
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 15
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence:linker
125 <400> SEQUENCE: 3
126 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
127   1               5                  10                  15
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Input Set : **A:\Nih356-1.app**
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130 <210> SEQ ID NO: 4
131 <211> LENGTH: 8
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence:C3 connector
137 peptide
139 <400> SEQUENCE: 4
140 Ser Gly Gly Pro Glu Gly Gly Ser
141 1 5
144 <210> SEQ ID NO: 5
145 <211> LENGTH: 81
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence:T128 primer
152 <400> SEQUENCE: 5
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154 gtgaaggttt cttgtcaggc t 81
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157 <211> LENGTH: 72
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
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164 <400> SEQUENCE: 6
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166 gccccagacg tc 72
168 <210> SEQ ID NO: 7
169 <211> LENGTH: 78
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Description of Artificial Sequence:T-144 primer
176 <400> SEQUENCE: 7
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178 accctgtctc tgtctcca 78
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181 <211> LENGTH: 57
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Description of Artificial Sequence:T131 primer
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191 <210> SEQ ID NO: 9
192 <211> LENGTH: 4
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence

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Input Set : A:\Nih356-1.app
Output Set: N:\CRF4\01022003\I673707.raw

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196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence:carboxy
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199       endoplasmic retention sequence
201 <400> SEQUENCE: 9
202 Lys Asp Glu Leu
203   1
206 <210> SEQ ID NO: 10
207 <211> LENGTH: 4
208 <212> TYPE: PRT
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial Sequence:carboxy
213       terminal sequence of Pseudomonas exotoxin (PE)
214       endoplasmic retention sequence
216 <400> SEQUENCE: 10
217 Arg Glu Asp Leu
218   1
221 <210> SEQ ID NO: 11
222 <211> LENGTH: 5
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence:native carboxy
228       terminal sequence of Pseudomonas exotoxin (PE)
229       endoplasmic retention sequence
231 <400> SEQUENCE: 11
232 Arg Glu Asp Leu Lys
233   1               5
236 <210> SEQ ID NO: 12
237 <211> LENGTH: 5
238 <212> TYPE: PRT
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Description of Artificial Sequence:linking peptide
244 <400> SEQUENCE: 12
245 Gly Gly Gly Gly Ser
246   1               5
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250 <211> LENGTH: 4
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence:carboxy
256       terminal sequence of Pseudomonas exotoxin (PE)
257       endoplasmic retention sequence
259 <400> SEQUENCE: 13
260 Arg Asp Glu Leu
261   1
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VERIFICATION SUMMARY DATE: 01/02/2003
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